	GENERAL INFORMATION	$\circ$
STAT	CARBONLESS PAPER	STAT —
	PAPER PRODUCTS DIVISION -	
	August 1, 1964	
	1. Description of How ACTION Paper Works.	
STAT	Carbonless Paper is a product which forms its own internal image in response to concentrated pressure. In most	
STAT	applications, sheets of Paper are placed beneath a shee of ordinary, plain paper to create multiple copies. For example, point pressure from writing with a ballpoint pen goes	
STAT	plies. It does this completely without the use of carbon pape In addition, since Paper has no coatings on either side each sheet works all by itself. This eliminates the need for having the proper side of one sheet in contact with the proper	•
STAT	side of another sheet in order to make a copy. And finally, since the Paper imaging capability is inside the paper, either side of the sheet will accept an image from pressure.	
STAT	II. Carbonless Paper Applications.	
	A. Snap-out business forms Padded business forms Order books and sales books Check forms Continuous forms for high speed printers Extra copy behind existing form sets on high speed printer Teletypewriter forms Register forms Multi-copy forms made from a single, folded sheet Fanfold forms Envelope forms Ribbonless - inkless forms with Paper as original Fuel Tickets Voucher checks and Deposit tickets Scale tickets	s STAT
	B. Teletypewriter rolls Accounting Machine Record Rolls Journal rolls Adding machine rolls Teller machine rolls Encoding machine rolls Various other specialty roll uses  PP-GIS Approved For Release 2003/01/28: CIA-RDP78B04770A002600100012-1	v by
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	III.	Manufacturer a	and Distributors.	STAT
				STAT
STAT			manufactures	STAT
			per in its own paper mill in	
STAT			es not manufacture business forms, but sells	
			material to those who do. Sheet stock and con	
		verter rolls f	or all types of business forms printers (rotary	
		forms companie	es, commercial printers, and in-plant print shop	s)
		markets.	through leading paper merchants in most local	
		markets.		
STAT		Cor	verts the specialty roll products, such as tele	_
JIAI			record rolls and distributes these products	
			cial stationers, industrial paper merchants,	
			ne dealers, banking supply houses, etc.	
			,	
	IV.	Common Questic	ons and Answers About Paper.	STAT
			wn the more common questions into three key area	
STAT				<sub>to</sub> STAT
OT 4 T			siness forms, and (C) Using business forms made	
STAT		ra Pa	per.	
STAT		A. Characteri	stics of Paper.	
		Question:	What is the major difference between Par	<sub>pe</sub> STAT
			and ordinary Carbonless Papers?	
STAT		Answer:	Paper works all by itself and thus can l	
			used with plain paper as the original. It has	
			coatings on either side and thus looks, feels,	
			handles like ordinary, plain paper. Because i	
			works alone, it can even be used as the original	
		Question:	when ribbonless or inkless imaging is desired.  Besides white, what colors are available?	
		Answer:	Canary, pink, goldenrod, blue and green.	
		Question:	How long can the paper be stored?	
STAT		Answer:	Paper has excellent shelf-life and can	he
•			stored for at least three years without any de-	
			able deterioration.	
		Question:	What color is the image?	
		Answer:	The image, by chemical design, is a blue-purple	е
			color which gives dark contrast and excellent	
			readability. The image color remains the same	
		•	throughout the life of the paper.	
		Question:	Is the image permanent?	
STAT		Answer:	An Paper image is permanent in the norma	
			sense of the word. The image will last for man	
			years with no noticeable deterioration when sul	
		Approved For R	jected to normal storage conditions. It is alselease 2003/01/28: CIA-RDP78B04770A002600100012-1	50

			insensitive to normal extremes of temperature and humidity, and is not affected by moisture exposure.
		Question:	Does the image have good resolution?
TAT		Answer:	Since the cells which form the image are extremely tiny, there is almost no "bleed" when
			the image is formed.
		Question:	<u>Is the image instantaneously formed?</u>
		Answer:	Although readable almost instantly, the image
		Allswel:	gradually gets darker during the first minute
			as it reaches its full density.
т л т		Question:	
STAT			Does Paper have an objectionable odor?
STAT		Answer:	Paper does not have any odor either before STAT
		0	or after it is imaged.
		Question:	What is the substance weight and caliper of
		•	Paper?
STAT		Answer:	Paper is available in a 12 pound weight only,
			as of today, and the paper calipers at .0037 inch.
			The sheet has the bulk and feel of about a 16 pound
			bond and is smooth on both sides due to the lack of
			coatings.
STAT		Question:	Is Paper affected by fluorescent lighting
		_	and direct sunlight?
STAT		Answer:	Paper continuously exposed to fluorescent
			lighting for as much as a year will remain com-
			pletely readable. Although it would be rare for
			a sheet of Paper to be subjected to direct STAT
			sunlight over a prolonged period of time, this
			situation will cause the intensity of the image to
			be reduced and the paper will lose further image
			forming ability.
STAT	В.	<u>Using</u>	Paper to Manufacture Business Forms.
		Question:	What are the top five benefits to the business forms printer of using Paper? STAT
		Answer:	(1) It's a simple carbonless paper to inventory,
			(2) Either side of the paper can be easily printed,
			(3) It has no curl and is highly stable to humidity
			changes, (4) It is light weight and thus offers
			freight savings, (5) It permits the use of an
			inexpensive bond sheet as the top ply in a business
			form.
STAT		Question:	Can Paper be printed by offset as well as
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STAT	Answer:	Paper can be easily printed by either
		offset or letterpress equipment. The sheet is
		surface sized during manufacture which prevents
		dusting to the offset blanket.
	Question:	What sheet sizes and roll widths are available?
STAT	Answer:	Paper is available in the following sheet
		sizes: 8½x11, 8½x14, 11x17, 17x22, 22½x34½,
		24x34½ and 28½x34½. It is available in any roll
		width up to 42 inches.
	Question:	Does the printing process image the paper in the
		printed area?
	Answer:	It will not on offset or rubber plate (letterpress)
		printing since the pressure is very low. The
		blanket or rubber plate simply lays ink on the
		paper. In metal plate (letterpress) printing,
		the pressure is high enough to break the cells
		in the paper beneath the ink deposit. This is
		not visible, however, except on the back side
		of the paper, because it is hidden by the ink.
STAT	Question:	Can Paper be backprinted?
017(1	Answer:	Yesit is very simple to print either or both
STAT		sides of Paper. Although the STAT
OTAT		image made on the front of the business form
		goes through the sheet, the backprinted message
		remains very readable. The reason for this is that
STAT		the image is blue-purple and the printed
OTAT		message is normally black. The back side cannot
		be printed as a form which will be filled in,
		however, since the image will go through to the
		front. In most forms applications, the top sheet
	•	is plain bond paper and may be printed and imaged
		on either side.
STAT	Question:	Can aper be desensitized in certain
OTAT	<b>E</b>	areas to restrict imaging?
	An <b>s</b> wer:	Yeswith letterpress equipment it is possible to
		crash imprint a solid area on the sheet so that no
		further imaging is possible. The sheet may also be
		overprinted front and back for blockouts.
	Question:	Which is the best side to print on?
	Answer:	Most pressmen generally prefer to print the felt STAT
	•	side of any paper, including Paper. This STAT
		procedure will also take advantage of the
		image which will appear slightly darker on the
		felt side. It is impossible, however, to print
		the wrong side since either side will function.
STAT		All sheets have an arrow on the package
		which indicates the print side (this is the felt
		side). Since most rotary presses print on the
		outside of the roll, all converter rolls STAT
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STAT	Question:	Does Paper curl?
	Answer:	Since the paper has no coatings on either side, there is literally no curl in the sheet at any
		time.
STAT	Question: Answer:	The product has been designed such that it is insensitive to inadvertent marking on the paper cutter.  Reduced clamp pressure, use of a false clamp plateTAT (with a sponge material applied), cutting with chipboard on top, and other techniques make Paper relatively easy to cut compared to ordinary carbonless papers.
		Adjustments are generally easy to make if the paper is being marked on the press. Key spots to watch are: feed rollers, blanket to impression cylindes pressure, ejector wheels and other similar pressure points.
	Question:	How does the pressman know if he is damaging Paper?
	Answer:	One of the nice things about Paper is that STAT the product itself tells the cutter or press operator when damage is being done. The paper shows the mark, and thus a correction can be made before going
		further. This is not always true of ordinary carbonless paper.
STAT	Question:	Does Paper give much edge bleed from cutting?
STAT	Answer:	Paper will normally bleed much less than
		ordinary carbon or carbonless papers. This is very important for overall forms appearance.
	Question:	Is precollated sheet stock available?
	Answer:	Precollated stock (top ply white bond, followed by
STAT		colors) is not yet available. plans to TAT make this available very soon, however.
STAT	Question:	Can Paper be gummed or spot carbonized?
	Answer:	These materials may generally be applied to Paper without adversely affecting the function of
		the sheet.
	Question:	What about padding of Forms so that they wSTAT
OT A T	*	fan apart into sets?
STAT	Answer:	Since Paper Forms generally contain a bond original and Paper for the copies, regular STAT padding adhesives will "bite" at all surfaces and
		the forms must be manually knifed apart. A solu-
		tion to this situation will soon be available through your paper merchant. It consists of a
		narrow strip of an invisible "wax-like" coating
		placed across the top of the bond sheet in the
		precollated stock. This causes the padding adhesive
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to not "hold" and the forms will fan apart. This will be made available as soon as possible.

c.	Using Busi	ness Forms Made From Paper STAT
	Question:	What are the top five benefits of Paper STAT
		to the forms user?
	Answer:	(1) Complete elimination of carbon paper, (2)
		permits the original to be an inexpensive sheet
		of your choice, (3) The paper looks and feels
		like ordinary paper, (4) The paper has no
		displeasing odor, and (5) Generally less
		expensive than ordinary carbonless papers.
	Question:	What about cost?
	Answer:	Forms using Paper are less expensive than STAT
		forms using ordinary carbonless papers. (figuring
		raw material costs only)
	Question:	Can Paper be used in conjunction with other
		specialty papers, such as direct image plates,
		safety paper, etc?
	Answer:	This is one of the big advantages of PaperSTAT
		It is compatible with all existing papers except
		Type Z Paper.
	Question:	Will the image reproduce on copying and microfilm
		equipment?
Answer:		The image will reproduce on most all copying machines
		and microfilm cameras. Since the image does not
		have the ability to absorb infra-red radiation,
		it will not copy on Thermo-Fax equipment. It will
		copy, however, on the line ofDry Photo STAT
		Copiers.
	Question:	Can the image be erased?
	Answer:	The image is not erasable and thus Paper STAT
		is quite "tamperproof". In addition, modern forms
		procedure calls for line-outs and corrected entries
		rather than time consuming and costly erasures. Some
		applications require erasability, however, and
	0	is developing a method of erasing.
	Question:	How sensitive is the paper to accidental imaging?
	Answer:	Paper has been designed to withstand the
		normal rigors of handling business forms. Sharp or point pressure is needed to mark the paper. Normal
		folding and filing will not mark the paper.
	Question:	What about the "number of copies" that can be made
	Z	in a form?STAT
	Answer:	The only significant difference between Paper
		and ordinary carbonless papers is in the area of
		handwritten forms. Paper should not generally

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			be used where the form exceeds three parts (original and two copies). Paper is equivalent to STAT
			other products in all machine written forms.
		Question:	What about the smudge buildup and markings due to
			interaction of plies while the form is still fastened
			together?
STAT		Answer:	Paper is much better in this respect than
			ordinary carbonless papers. Rubbing of the plies
			together or other pressure motions will not mark
STAT			the Paper.
		Question:	How Clean is Paper? STAT
STAT		Answer:	Paper is absolutely the "cleanest" forms
			paper system ever put on the market. Rubbing of
	-		the imaged paper on a white cloth will prove
			that there is no smudge, smear, or transfer.
	v.	Summary	
			re questions, or need further elaboration or help, your paper merchant sales representative. He'll
		have the answe	ers, or he can get them from STAT

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